

AMENDMENTS TO THE CLAIMS:

The listing of claims will replace all prior versions, and listings of claims in the application:

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1. (Currently Amended) A method of generating a show-through pattern on a duplex-printed document through selective disposition of halftone patterns on opposite sides of the a non-transparent paper document comprising steps of:

printing a first image on a first side of the document in a first halftone pattern; and,

printing a second image on a second side of the document in a second halftone pattern wherein the first and second halftone patterns present first and second images upon front-lit illumination respectively, and are disposed to form a recognizable marking distinct from the first and second images upon illumination from a show-through light source.

A1 2. (Previously Presented) The method as described in claim 1 wherein the said recognizable marking is produced through a local phase shift of printed halftone dots.

3. (Currently Amended) The method as defined in claim 2 wherein the first and second halftone patterns are obtained by utilizing a first and a second clustered halftone screens of substantially the same halftone-dot frequency wherein the second halftone screen incorporates a phase shift in dot pattern in the shape of the said recognizable marking.

4. (Previously Presented) The method as claimed in claim 3 wherein the phase shift in the second halftone screen comprises a shift of 180° over the embedded watermark pattern.

5. (Previously Presented) The method as defined

in claim 4 wherein the watermark comprises significant local variation in brightness resulting in a pattern clearly visible to the human eye.

6. (Previously Presented) The method described in claim 1 wherein the said recognizable marking is produced through a local frequency shift of the printed halftone dots.

7. (Previously Presented) The method as defined in claim 6 wherein the first and second halftone patterns are obtained by utilizing a first and a second clustered-dot halftone screen and the second halftone screen incorporates a frequency shift in dot pattern in the shape of the said recognizable marking.

A. 8. (Previously Presented) The method as defined in claim 7 wherein the recognizable marking comprises a variation in moirée pattern.

9. (Previously Presented) The method described in claim 1 wherein the said recognizable marking is produced through a local angle shift of printed halftone dots.

10. (Currently Amended) ~~the~~ The method as defined in claim 1 wherein the printings comprise a color printing.

11. (Currently Amended) A duplex-printed document having a show-through watermark comprising a selective overlay between a first image on a first side of the document and a second image on a second side of the document, the first and second images comprising independent images respectively to a viewer upon front-lit illumination, and wherein the images comprise halftone dots relatively adjusted for ~~forming~~

cooperating to form the watermark upon illumination of the document from a show-through light source.

12. (Previously Presented) The document as claimed in claim 11 wherein the watermark is produced through a local phase shift of the halftone dots between the first and second sides of the document.

13. (Previously Presented) The document as claimed in claim 11 wherein the second image adjustment comprises angle or frequency shifting between the first and second images.

A 14. (Currently Amended) A printing apparatus for duplex printing a non-transparent paper document having a show-through watermark comprising first and second images on opposed sides of the document wherein the images comprise halftone dot patterns for forming an associated overlay pattern between the first and second images, resulting in a recognizable pattern comprising the watermark, upon illumination by a show-through light source, and wherein the watermark is unrecognizable from either of the images alone upon respective illumination by a front light source.

15. (Previously Presented) The printing apparatus as defined in claim 11 wherein the halftone dots are relatively shifted by at least one of phase, angle or frequency.

16. (Currently Amended) The printing apparatus as defined in claim 11 wherein the watermark is ~~primarily~~ recognizable in a ~~reasonably~~ large and relatively uniform area of overlap between the first and second images.

17. (Currently Amended) A method of duplex printing a document for forming a show-through watermark thereon upon

back-lit illumination comprising steps of:

printing a front pattern on a front side of the document;  
and,

printing a back pattern on a back side of the document wherein  
the front and back patterns present independent images  
respectively upon front-lit illumination and wherein the  
patterns are disposed for interacting with the front pattern  
in the upon back-lit illumination to produce a recognizable  
marking, wherein the marking is not recognizable upon only  
front-lit illumination of the independent images.

18. (Currently Amended) The method as claimed in  
claim 17 wherein the interacting comprises at least one of phase,  
frequency or angle shifting of halftone dot patterns.

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